

FIG. 1

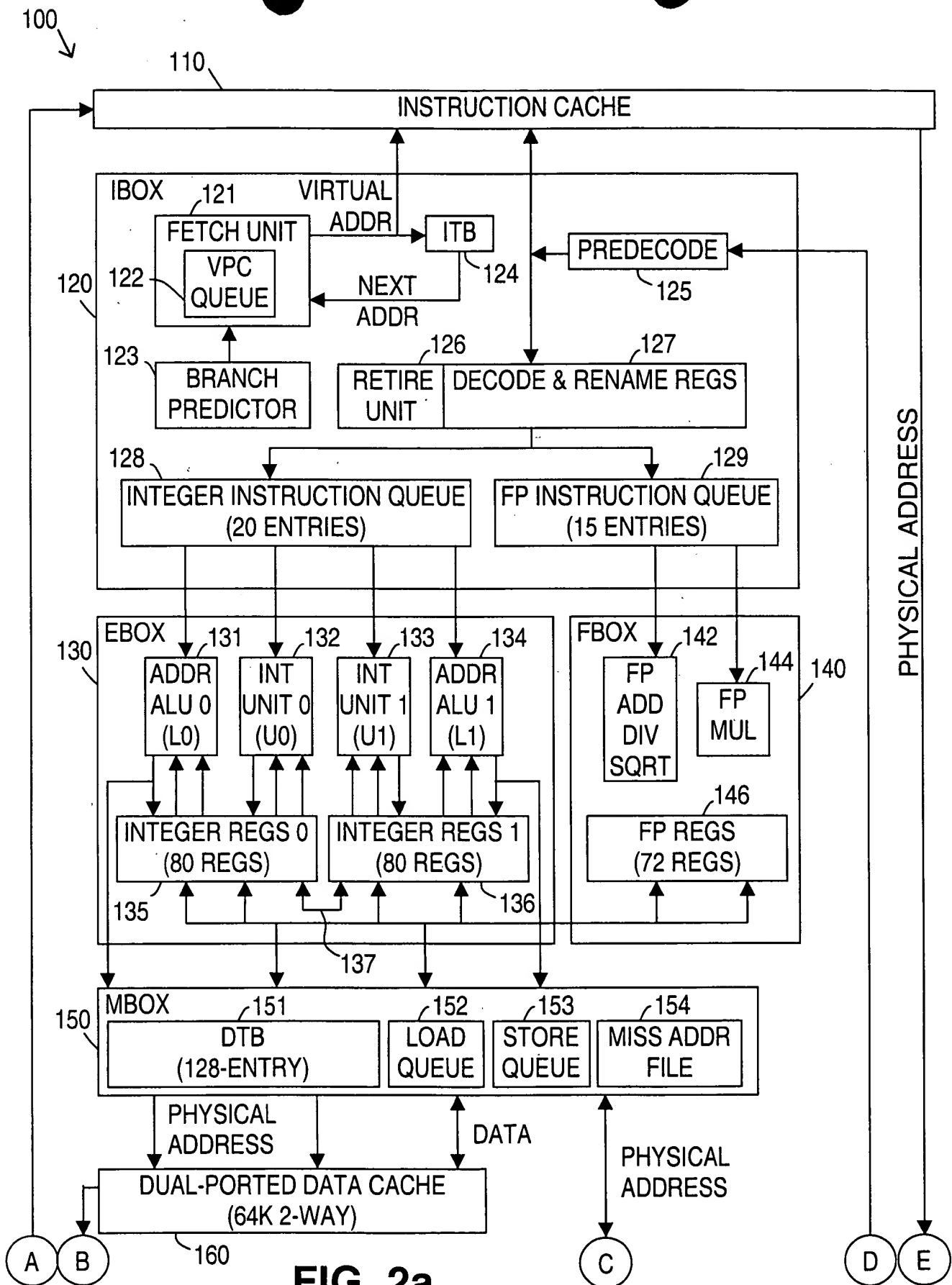


FIG. 2a

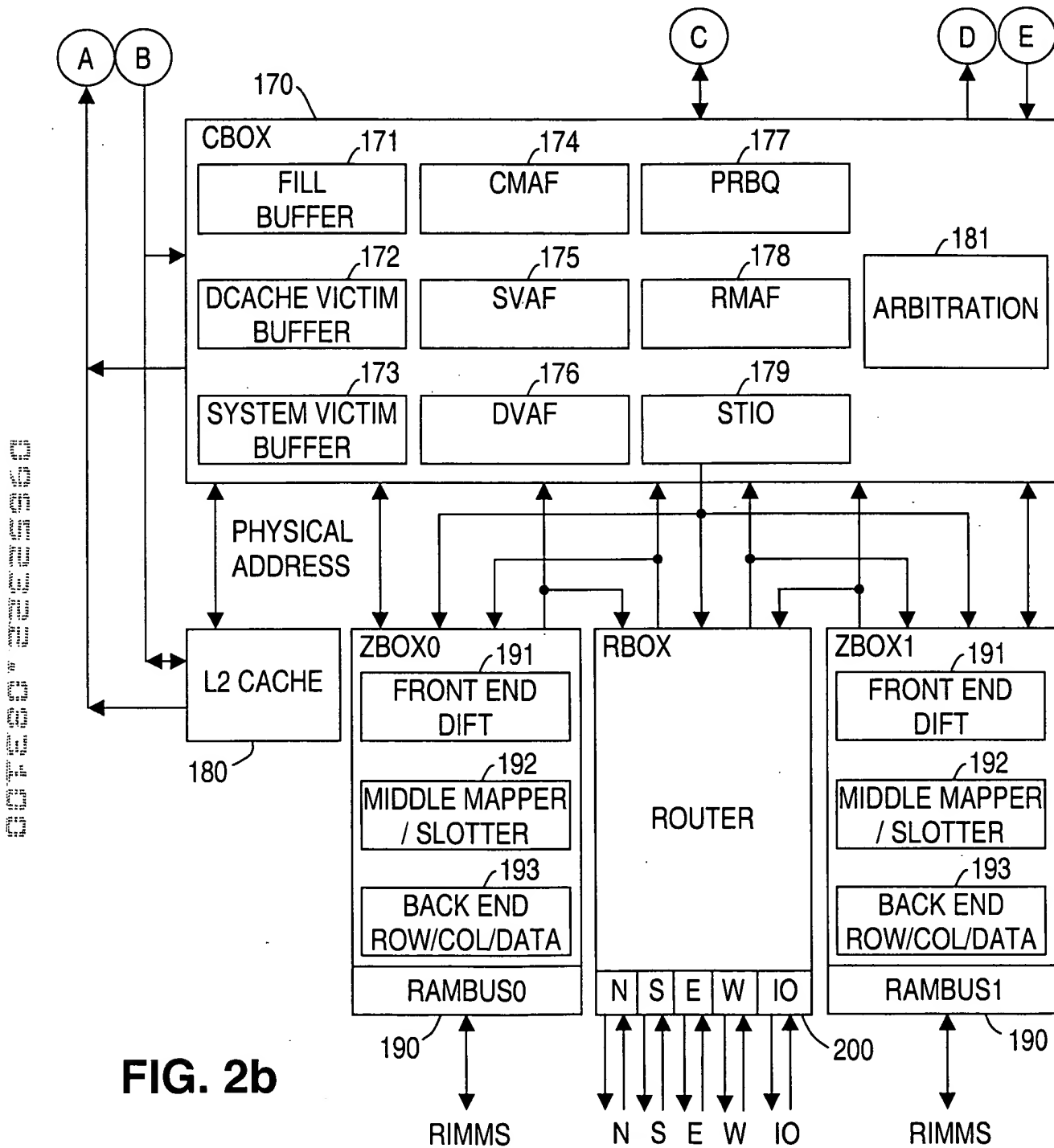


FIG. 2b

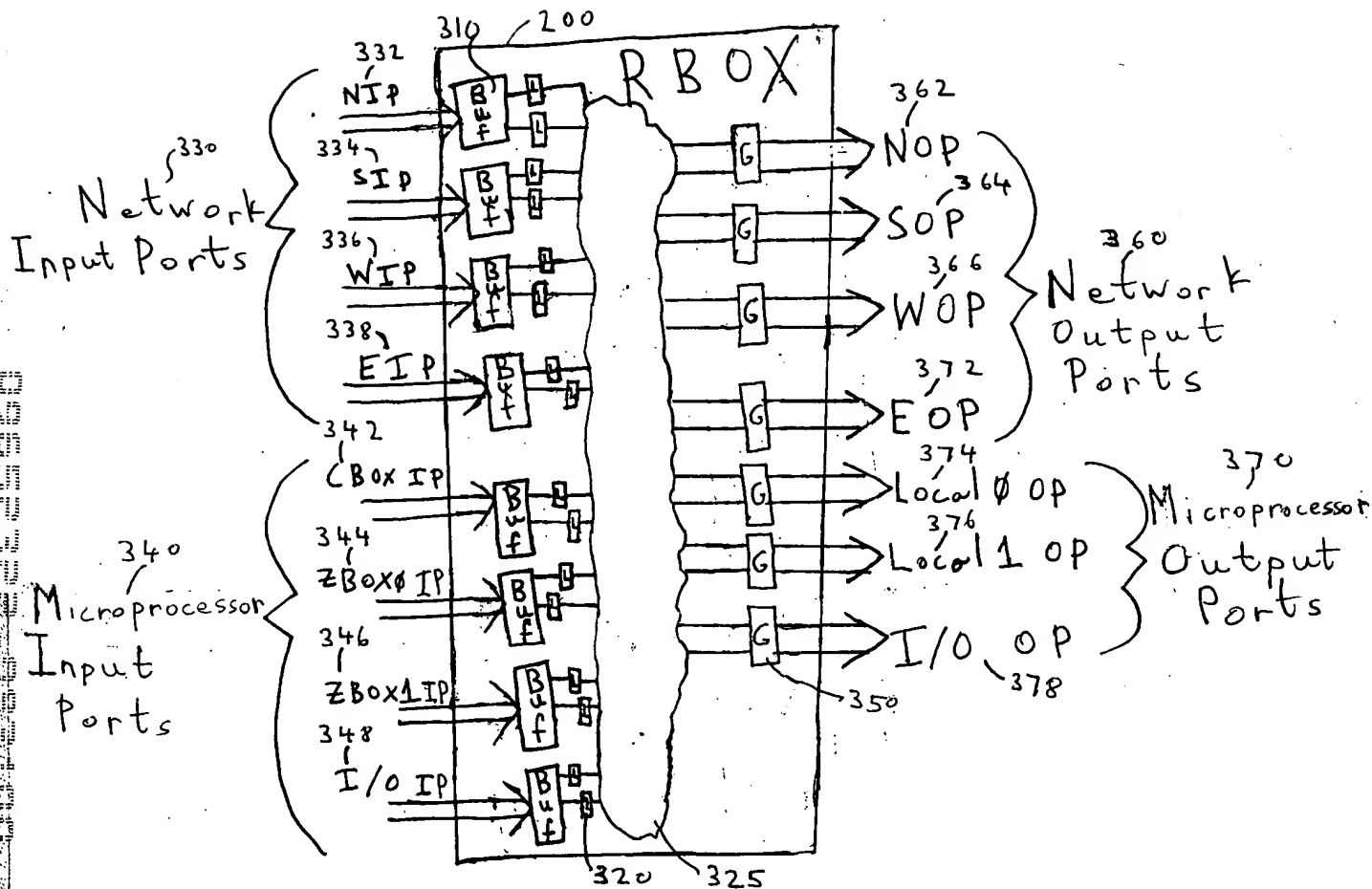
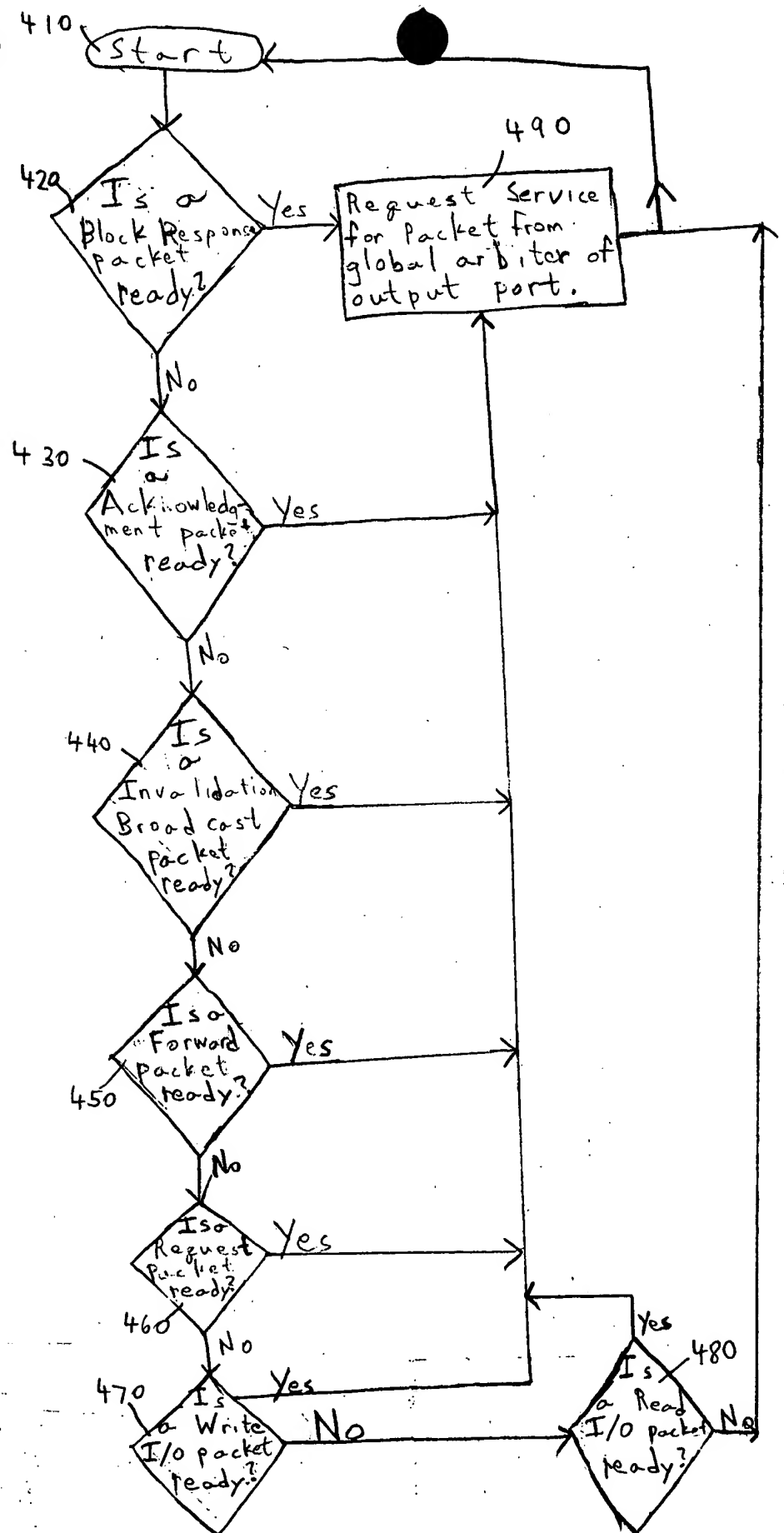


Figure 3

Local
Arbiter

Figure 4



Global Arbitrator

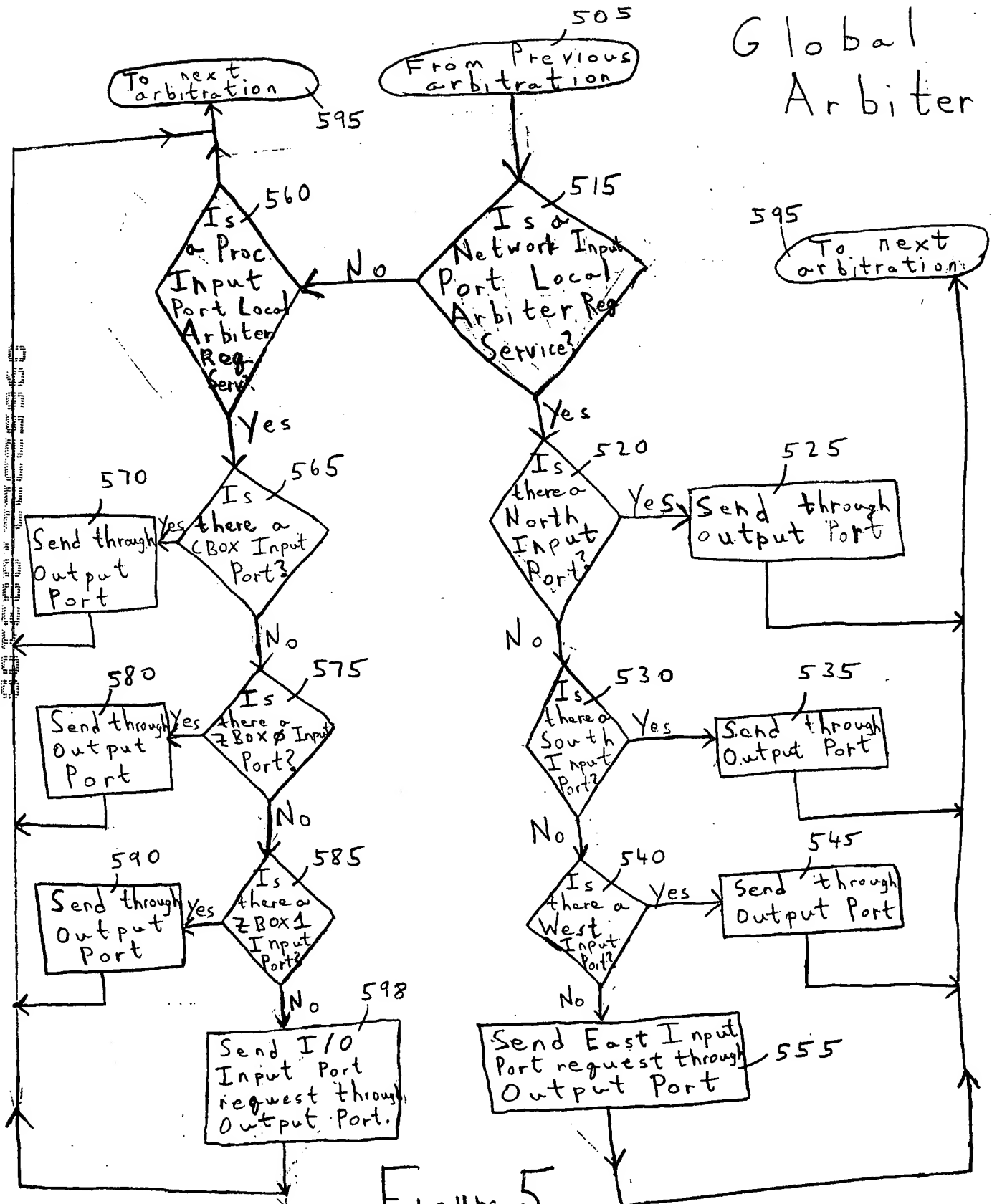


Figure 5

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Packet 4e to OP North	Packet 3e to OP North	Packet 2e to OP North	Packet 1e to OP North
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 East IP

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Packet 4w to OP South	Packet 3w to OP South	Packet 2w to OP South	Packet 1w to OP North
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 West IP

5

CLOCK 

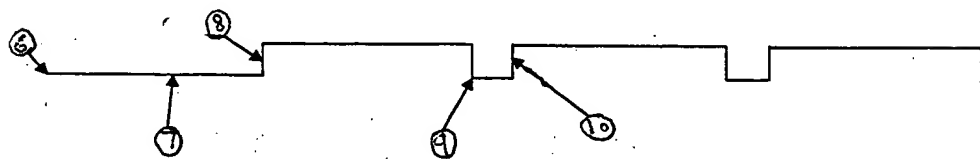
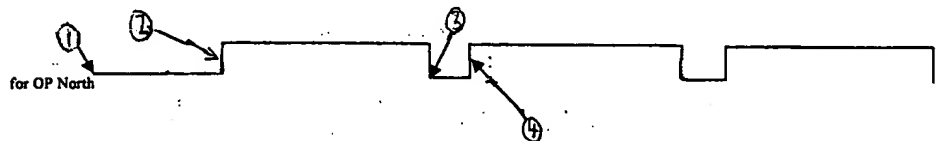


Figure 6